Title (en)

ELECTROMAGNETIC ULTRASONIC TRANSDUCER AND ARRAY THEREOF

Title (de)

ELEKTROMAGNETISCHER ULTRASCHALLWANDLER UND ARRAY DAFÜR

Title (fr)

TRANSDUCTEUR À ULTRASONS ÉLECTROMAGNÉTIQUE ET ENSEMBLE TRANSDUCTEUR

Publication

EP 2101515 A4 20110420 (EN)

Application

EP 07710960 A 20070214

Priority

- CN 2007000539 W 20070214
- CN 200610167720 A 20061219

Abstract (en)

[origin: US2010018315A1] An electromagnetic ultrasonic transducer and an array thereof are provided. This electromagnetic ultrasonic transducer includes a support, an elastic board disposed on the support, a magnetizer on the elastic board, and a magnet field generator for vibrating the magnetizer, wherein, the thickness of the magnetizer is of the order of microns. The thickness of the elastic board is also of the order of microns. This electromagnetic ultrasonic transducer is able to produce acoustic waves of high frequency, which are useful for ultrasonic therapy.

IPC 8 full level

H04R 13/00 (2006.01); **A61N 7/00** (2006.01); **B06B 1/04** (2006.01)

CPC (source: EP US)

A61H 23/0245 (2013.01 - EP US); **A61N 7/00** (2013.01 - EP US); **B06B 1/04** (2013.01 - EP US)

Citation (search report)

- [XYI] US 2002136424 A1 20020926 - USUKI SAWAKO [JP], et al
- [Y] EP 0781994 A2 19970702 - EBARA CORP [JP]
- [Y] US 6480614 B1 20021112 - DENDA SAKUZO [JP], et al
- See references of WO 2008074200A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 2010018315 A1 20100128; **US 8116509 B2 20120214**; CA 2670508 A1 20080626; CA 2670508 C 20130514; CN 101204700 A 20080625; CN 101204700 B 20120808; EP 2101515 A1 20090916; EP 2101515 A4 20110420; EP 2101515 B1 20180509; JP 2010514396 A 20100430; RU 2009124608 A 20110127; RU 2456765 C2 20120720; WO 2008074200 A1 20080626

DOCDB simple family (application)

US 51946907 A 20070214; CA 2670508 A 20070214; CN 200610167720 A 20061219; CN 2007000539 W 20070214; EP 07710960 A 20070214; JP 2009541736 A 20070214; RU 2009124608 A 20070214